

5031

Diag. Cht. No. 1247

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: FLORIDA

11-5613

DESCRIPTIVE REPORT.

FIELD Sheet No. 4 **5031**

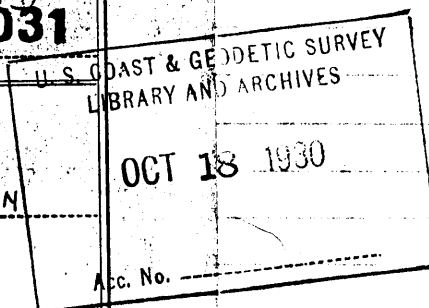
LOCALITY:
North of
St. Lucie Inlet - Δ THIN

ALSO Gilbert's Bar

East Coast of Florida

1930

CHIEF OF PARTY:
C.A. Egner,



5031

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5031

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 4

REGISTER NO. 5031

State Florida

General locality East Coast

Locality North of St. Lucie Inlet

Scale 1:20,000 Date of survey April 15th to May 23, 1923

Vessel Natoma

Chief of Party C.A. Egner

Surveyed by Hubert A. Paton

Protracted by William F. Deane & Hubert A. Paton

Soundings penciled by William F. Deane

Soundings in fathoms feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated December 20, 1923

Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY

SHEET NO. 4

NORTH OF ST. LUCIE INLET & GILBERT'S BAR

(a) Survey was made in accordance with instructions dated Dec. 20, 1930.

(b) Methods:

All soundings were taken with a hand lead, using an 8 pound lead. The ship's launch was used for all the work. Signals were located by Topography and Triangulation. These were plotted on the smooth sheet by DMs and DPs from the south end up to \odot Wrek. The remaining signals were transferred directly from topographic sheet.

(c) Connections:

This sheet joins Sheet #1 and 2 on the south. A few short lines were run between the eastern limit of No. 2 and the western limit of #6, off St. Lucie Inlet. Although St. Lucie Shoal falls within the limits of this sheet, better control could be secured by making a separate sheet for it. See Sheet #3. On the north the sheet connects with Sheet #5.

Sounding lines run by the ship on Sheet #6 and 7, extended into the area covered by this sheet and they were transferred to the boat sheet and not re-run. The apparent gaps in the development of Gilbert's Bar were the places where the ship's lines fall.

(d) Dangers:

A rocky reef extends from Δ JETTY to \odot GAD in Lat. $27^{\circ}10'$ to $27^{\circ}11'$ and Long. $80^{\circ}09.3'$ The least depth is 3 feet.

A sunken wreck which bares 1 foot at low water lies about 200 meters east by south of the Gilbert's Bar Coast Guard Station (\odot GARD).

Rocks which bare 2 feet at low water, 240 meters south east of \odot HAK in Lat. $27^{\circ}10.4'$ Long. $80^{\circ}09.4'$

The least depth on Gilbert's Bar is 20 feet in Lat. $27^{\circ}11.6'$ Long. $80^{\circ}09.1'$ and also in Lat. $27^{\circ}12.7'$ Long. $80^{\circ}09.1'$

A bar with a least depth of 9' parallels the shore line from Lat. $27^{\circ}13.5'$ to Lat. $27^{\circ}15.5'$ at a distance of 250 meters out from high water.

(e) Anchorage:

Small craft seeking protection from a southerly storm, and unable to enter St. Lucie Inlet can find some shelter north of the jetty. One regard should be given the bar which extends NNW of Δ JETTY and the rocks 550 meters north of the Jetty.

(f) Previous surveys on Gilbert's Bar show 19 feet.
The least depth found was 20 feet.

(g) Statistics:

Positions: 750
Soundings: 3486
Statute miles
of sounding lines 109.4

Respectfully submitted

Hubert A. Paton
Hubert A. Paton
Jr. H & G Engr.,

Approved:

C.A. Egner
C.A. Egner,
H & G Engr.,
Chief of Party.

PLANE-TABLE POSITIONS

| STATION: | LATITUDE | D.M. | LONGITUDE | D.P. | HEIGHT | REMARKS |
|-----------------------|---------------------|---------------|-----------|-----------|--------|-----------------------------|
| 1. Non | 27° 10' | 1537 (310) | 80° 09' | 1000(651) | | Banner sig. |
| 2. Hap | 27 11 | 92 (1755) | 80 09 | 981(670) | | " " |
| 3. Gad | 27 11 | 411 (1436) | 80 09 | 1026(625) | | " " |
| 4. Pont | 27 11 | 749 (1098) | 80 09 | 1077(574) | | " " |
| 5. Fish | 27 11 | 1337 (510) | 80 09 | 1364(287) | | "2 mi to Inlet" sign |
| 6. Look | 27 11 | 1678 (169) | 80 09 | 1516(135) | 15' | Lookout stand on bank. |
| ✓ 7. Gard | 27 11 | 1794 (53) | 80 09 | 1552(99) | | NE Corner of C.G. House. |
| 8. Fat | 27 12 | 347 (1500) | 80 10 | 102(147) | | Banner signal |
| ✓ 9. Wind | 27 12 | 567 (1280) | 80 10 | 218(1433) | | Banner signal |
| 10. Tres | 27 12 | 852 (995) | 80 10 | 381(1270) | | " " |
| 11. Dos | 27 12 | 1057 (790) | 80 10 | 491(1160) | | " " |
| 12. Uno | 27 12 | 1202 (645) | 80 10 | 563(1088) | | " " |
| 13. Be | 27 12 | 1385 (462) | 80 10 | 649(1002) | | " " |
| 14. Knob | 27 12 | 1580 (267) | 80 10 | 765(886) | | " " |
| ✓ 15. Sig | 27 12 13 | 156 (1691) | 80 10 | 971(680) | | " " |
| 16. Tim | 27 13 | 354 (1493) | 80 10 | 1080(571) | | " " |
| 17. Peak | 27 13 | 543 (1304) | 80 10 | 1167(484) | | " " |
| 18. Blak | 27 13 | 717 (1130) | 80 10 | 1248(403) | | " " |
| ✓ 19. 1st | 27 13 | 888 (959) | 80 10 | 1346(305) | | " " |
| 20. Barb | 27 13 | 1135 (712) | 80 10 | 1457(194) | | " " |
| 21. ^D Deep | 27 13 | 1268 (579) | 80 10 | 1523(126) | | " " |
| ✓ 22. Ship | 27 13 | 1439 (408) | 80 10 | 1602(49) | | " " |
| 23. Pid | 27 13 | 1219 (227) | 80 11 | 55(1596) | | " " |
| 24. Tan | 27 14 | 0 (1847) | 80 11 | 168(1583) | | " " |
| 25. Pep | 27 14 | 215 (1632) | 80 11 | 264(1385) | | " " |

PLANE TABLE POSITIONS (CONT'D)

| STATION: | LATITUDE | D.M. | LONGITUDE | D.P. | HEIGHT | REMARKS |
|------------|----------|-----------|-----------|-----------|--------|--|
| ✓ 26. Mon | 27° 14' | 413(1434) | 80° 11' | 370(1281) | | Banner signal. |
| 27. Wash | 27 14 | 614(1233) | 80 11 | 470(1181) | | " " |
| ✓ 28. Ape | 27 14 | 926(921) | 80 11 | 611(1040) | | " " |
| 29. Fly | 27 14 | 1113(734) | 80 11 | 695(956) | | " " |
| ✓ 30. Par | 27 14 | 1380(457) | 80 11 | 830(824) | | " " |
| ✓ 31. Pod | 27 14 | 1764(83) | 80 11 | 1014(637) | | " " |
| 32. Chur | 27 15 | 227(1620) | 80 11 | 1165(486) | | 9' SE Corner Sand |
| ✓ 33. Bin | 27 15 | 508(1339) | 80 11 | 1291(360) | | bins. Banner signal. |
| 34. Cad | 27 15 | 704(1143) | 80 11 | 1374(277) | | " " |
| 35. Baw | 27 15 | 955(892) | 80 11 | 1480(171) | | " " |
| 36. Club | 27 15 | 1049(798) | 80 11 | 1529(122) | | E.Gable beach Clubhouse with striped roof. Banner signal. |
| 37. Add | 27 15 | 1180(667) | 80 11 | 1570(81) | | " " |
| 38. Puer | 27 15 | 1495(352) | 80 12 | 50(1600) | | " " |
| 39. Amo | 27 15 | 1685(152) | 80 12 | 126(1514) | | " " |
| ✓ 40. Boy | 27 16 | 46(1801) | 80 12 | 210(1440) | | " " |
| 41. Love | 27 16 | 282(1565) | 80 12 | 302(1348) | | " " |
| 42. Nite | 27 16 | 513(1334) | 80 12 | 388(1262) | | " " |
| 43. Pipe | 27 16 | 699(1148) | 80 12 | 443(1207) | | 9' Iron pipe at N. end of Wreck on beach. Banner signal. |
| ✓ 44. To | 27 16 | 788(1159) | 80 12 | 496(1154) | | " " |
| 45. Day | 27 16 | 1079(768) | 80 12 | 612(1038) | | " " |
| ✓ 46. Eve | 27 16 | 1282(565) | 80 12 | 686(964) | | " " |
| 47. Morn | 27 16 | 1478(369) | 80 12 | 771(879) | | " " |
| ✓ 48. Grow | 27 16 | 1683(164) | 80 12 | 869(781) | | " " |
| 49. Lot | 27 17 | 105(1742) | 80 12 | 992(658) | | " " |
| 50. In | 27 17 | 333(1514) | 80 12 | 1082(568) | | " " |

PLANE TABLE POSITIONS (CONT'D)

| STATION | LATITUDE | D.M. | LONGITUDE | D.P. | HEIGHT | REMARKS |
|----------|----------|---|-----------|-----------|--------|---------------------------------------|
| 51. Pan | 27° 17' | 517(1330) | 80° 12' | 1157(493) | | Banner signal |
| 52. Ber | 27 17 | 742(1105) | 80 12 | 1254(396) | | " " |
| 53. Fram | 27 17 | 909(936) | 80 12 | 1326(324) | 20' | Frame tower with white wooden target. |
| 54. Ano | 27 17 | 1190(657) | 80 12 | 212(1438) | | Banner Signal. |
| 55. Ten | 27 17 | 1435(362) | 80 12 | 1547(103) | | " " |
| 56. Six | 27 17 | ⁽⁷¹⁸⁽¹⁰⁹⁾⁾ 1435(362) | 80 12 | 1646(4) | | " " |
| 57. Clum | 27 18 | 291(1556) | 80 13 | 152(1498) | | " " |
| 58. Mol | 27 18 | 645(1202) | 80 13 | 287(1363) | | " " |
| 59. Cot | 27 18 | 951(996) | 80 13 | 415(1235) | | " " |
| 60. Dad | 27 18 | 1257(590) | 80 13 | 535(1115) | | " " |
| 61. Pat | 27 18 | 1623(224) | 80 13 | 694(956) | | " " |
| 62. Wrek | 27 19 | 145(1702) | 80 13 | 814(836) | 10' | S. End of wreck on beach. |

New York City, N.Y.

October 15th, 1930 19

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

C.A. Egner

Chief of Party.

The Following should be removed from Chart 163

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY


REPORT OF INSPECTION

FIELD SHEET NO. 4.

St. Lucie Inlet to Station Thin

Development of Gilbert
Bar and Shoal.

The field Sheet No. 4 accompanying this report has been inspected and is approved. This sheet covers the sounding along the shore of the Florida Coast from St. Lucie Inlet to Triangulation Station Thin; also, it includes a development of Gilbert's Bar and Gilbert Shoal both called for on this scale by the Instructions for Project #49.


C. A. Egner,
Chief of Party,
Commanding Natoma.

T I D A L D A T A

All soundings were reduced by records obtained with
a portable automatic tide gauge located on a jetty
at St. Lucie Inlet.

| | | | |
|----------------|---|------|--------------|
| Mean Low water | - | 0.97 | on the staff |
| Highest tide | - | 5.0 | " " " |
| Lowest tide | - | 0.0 | " " " |

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Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5031

The following statistics will be submitted with the
cartographer's report on the sheet:

| | |
|---|-------|
| Number of positions on sheet | 750. |
| Number of positions checked | 256. |
| Number of positions revised | 5. |
| Number of soundings recorded | 3486. |
| Number of soundings revised | 42. |
| Number of signals erroneously plotted or transferred | None. |

Date: 3 Dec., 1930
Cartographer: E. M. Brown

Section of Field Records

Sheet No H 5031

Surveyed in 1930

Chief of Party C. A. Egner

Surveyed by Hubert A. Paton

Protected by William F. Deane & Hubert A. Paton

Soundings plotted by William F. Deane

Verified & Inked by E. C. Mc. Blosson

1. The records conform to the requirements of the general instructions.
2. The plan and character of development fulfill the requirements of the general instructions.
3. The usual depth curves can be completely drawn within the limits of the sheet.
4. The field plotting was completed to the extent prescribed in general instructions.
5. The office draftsman did not have to do over any part of drafting done by field party, except as noted on sketcher sheet.
6. The junctions with adjacent are found to be satisfactory.

Respectfully submitted,
E. C. Mc. Blosson

SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5031

Florida, East Coast - North of St. Lucie Inlet

Surveyed in 1930

Instructions dated December 20, 1929 (NATOMA)

Chief of Party, C. A. Egner
Surveyed by H. A. Paton
Protracted by W. F. Deane, H.A.P.
Soundings plotted by W.F.D.
Verified and inked by G. C. McGlasson.

1. The records conform to the requirements of the Hydrographic Manual.
2. The work conforms to the specific instructions, with the exception that a closer development should have been made in the area to the north and northeast of the jetty at St. Lucie Inlet, since this area is recommended as a possible anchorage in southerly weather.
3. The junctions with the inshore sheets H. 5040, H. 5022 and H. 5023 are satisfactory. The junction with the offshore sheet H. 5047 will be taken up when that sheet is reviewed. Several lines across Gilbert Shoal were run on the offshore sheet that fill some gaps in the ~~inshore~~ development on the inshore sheet.

The work on Engineers' blue print, No. 22736, has not been considered as the area as far as it overlaps this sheet has been covered by H. 5023, surveyed a year later than the Engineers survey.

4. Cartographic Problems:

There are no cartographic problems presented. The minimum depths on Gilbert Shoal is 20 feet, whereas the old survey (H. 1523b) of 1873 shows a least depth of 19 feet. It is not considered necessary to chart these old depths.

5. Additional work: See paragraph 2, above.

6. Reviewed by A. L. Shalowitz, January 1931.

Approved:

(Signed) A.M. Sobieradzki
Chief, Section of Field Records

756 Borden
Chief, Section of Field Work

Applied to CHA 140 11-22-60 RKD